

Abstract of the Disclosure

A polarized light beam splitter system provides a polarized light beam splitter including an embedded wire grid polarizer. Spacers ensure a uniform distance between an exposed surface of an internal wire grid polarizer and a corresponding internal surface of a polarized light beam splitter prism so as to ensure a uniform air gap between the two surfaces and within the prism. The spacers typically comprise rigid spheres having a precise predetermined outer diameter. The spacers are generally distributed within an adhesive, such as epoxy, which is used to adhere the exposed surface of the wire grid polarizer to the internal surface of the prism, around the outer edge of the two surfaces. The exposed surface of the wire grid polarizer and the internal surface of the prism are forced together during adhesion so that the two surfaces are uniformly separated by the an air gap having a width having the same dimension as the diameter of a single spacer.

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